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JP10057811A: NOX GAS OXIDIZING AGENT AND PRODUCTION THEREOF

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Application Number: JP1996000216422

IPC Class: B01J 023/889; B01D 053/86; B01D 053/94; B01J 035/10;

Abstract: **Problem to be solved:** To efficiently oxidize and decompose nitrogen oxides even in low concentrations by producing a NOx gas oxidizing agent from a substance containing activated manganese dioxide having BET specific surface area within a specified range and bearing copper as an effective component.

Solution: A NOx gas oxidizing agent to efficiently remove NOx in low concentration in an exhaust gas emitted out of an internal combustion engine of an automobile, etc., by oxidation and decomposition is produced using activated manganese dioxide having 150-300m²/g BET specific surface area and bearing copper as an effective component. Such a NOx gas oxidizing agent is produced by following processes; a first process to precipitate a mixed salt crystal of manganese and copper by converting an aqueous solution of a mixed salt of manganese and copper to be mineral acid-acidic, a second process to produce manganese dioxide by adding potassium permanganate to the resultant strongly acidic slurry obtained through the first process and carrying out oxidation treatment, a third process to separate a precipitated substance from a mother solution, and a fourth process to neutralize the obtained precipitated substance with an alkali agent.

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Foreign References: non

(No patents reference this one)